

Figure 1A

No.	Kinase-Subclass	Family	Sub	Protein	α D sequence
1	Serine/Threonine	RAF		c-Raf	TQWCEGSSLYKHLHVQETK F
2	Serine/Threonine	RAF		Araf	TQWCEGSSLYHHLHVADTR F
3	Serine/Threonine	RAF		Braf	TQWCEGSSLYHHLHIETKF
4	Serine/Threonine	CAPK		cAPKa	MEYVPGGEMFSLRRIGRF
4	Serine/Threonine	CAPK		cAPKb	MEYVPGGEMFSLRRIGRF
5	Serine/Threonine	CAPK		cAPKg	MEYVPGGEMFSRLQRVGRF
6	Serine/Threonine	PKC		PKCa	MEYVNGGDLMYHIQQVGK F
7	Serine/Threonine	PKC		PKCb	MEYVNGGDLMYHIQQVGR F
8	Serine/Threonine	PKC		PKCg	MEYVTGGDLMYHIQQLGKF
9	Serine/Threonine	PKC		PKCd	MEFLNGGDLMFHIQDKGRF
10	Serine/Threonine	PKC		PKCe	MEYVNGGDLMFQIQRSRKF
11	Serine/Threonine	PKC		PKCet	MEFVNGGDLMFHIQKSRRF
12	Serine/Threonine	PKC		PKCth	MEYLNNGGDLMYHIQSCHKF

Figure 1B

13	Serine/Threonine	Akt/PKB		Akt1/RacA	MEYANGGELFFHLSRERV
13	Serine/Threonine	Akt/PKB		Akt2/RacB	MEYANGGELFFHLSRERV
14	Serine/Threonine	GSK3		GSK3a	LEYVPETVYRVARHFTKAK LII
15	Serine/Threonine	GSK3		GSK3b	LDYVPETVYRVARHYSRAK QTL
16	Serine/Threonine	CK II		CK IIa	FEHVNNTDFKQLYQTL
17	Serine/Threonine	CK II		CK IIa'	FEYINNTDFKQLYQIL
18	Serine/Threonine	bARK1,2		bARK1	LDLMNGGDLHYHLSQHGV F
18	Serine/Threonine	bARK1,2		bARK2	LDLMNGGDLHYHLSQHGV F
19	Serine/Threonine	GRK1		GRK1	MTIMNGGDIRYHIYNVDED NPGF
20	Serine/Threonine	GRK4		GRK4	LTIMNGGDLKFHIYNLGNPG F
21	Serine/Threonine	GRK5		GRK5	LTIMNGGDLKFHIYNMGNP GF
22	Serine/Threonine	GRK6		GRK6	LTLMNGGDLKFHIYHMGQA GF

Figure 1C

23	Serine/Threonine	CaMK		CaMK I	MQLVSGGELFDRIVEKGGY
24	Serine/Threonine	CaMK		CaMK IIa	FDLVTGGELFEDIVAREYY
24	Serine/Threonine	CaMK		CaMK IIb	FDLVTGGELFEDIVAREYY
24	Serine/Threonine	CaMK		CaMK IIg	FDLVTGGELFEDIVAREYY
24	Serine/Threonine	CaMK		CaMK IId	FDLVTGGELFEDIVAREYY
25	Serine/Threonine	POLO		Plk	LELCRRRSLLELHKRRKAL
26	Serine/Threonine	POLO		Plx1	LELCRRRSLLELHKRRKAV
27	Serine/Threonine	POLO		polo	LELCCKRSMMELHKRRKSI
28	Serine/Threonine	POLO		SNK	LEYCSRSMMAHILKARKVL
29	Serine/Threonine	POLO		CDC5	LEICPNGSLMELLKRRKVL
30	Serine/Threonine	POLO		Sak	LEMCHNGEMNRYLKNRVK PF
31	Serine/Threonine	POLO		Prk	LELC SRKSLAHIWKARHTL

Figure 1D

31	Serine/Threonine	POLO		Fnk	LELCSRKSLAHIWKARHTL
32	Serine/Threonine	POLO		Plol	LELCEHKSLMELLRKRKQL
33	Serine/Threonine	MARK/p78		MARK1	MEYASGGGEVFDYLVAGR M
33	Serine/Threonine	MARK/p78		MARK2	MEYASGGGEVFDYLVAGR M
34	Serine/Threonine	MARK/p78		P78	MEYASGGKVFDYLVAGR M
35	Serine/Threonine	CDK		CDK2	FEFLHQDLKKFMDASALTGI
36	Serine/Threonine	CDK		CDK4	FEHVDQDLRTYLDKAPPPG L
37	Serine/Threonine	CDK		CDK6	FEHVDQDLTTYLDKVPEPG V
38	Tyrosine	SRC		c-Src	TEYMSKGSLLDFLKGETGK YL
39	Tyrosine	SRC		c-Yes	TEFMSKGSLLDFLKEGDGK YL
40	Tyrosine	SRC		Fyn	TEYMNKGSLLDFLKDGEGR AL
41	Tyrosine	SRC		c-Fgr	TEFMCHGSLLDFLKNPEGQ DL

Figure 1E

42	Tyrosine	LYN/HCK		Lyn	TEYMAKGSLLDFLKSDEGGKV
43	Tyrosine	LYN/HCK		Hck	TEFMAKGSLLDFLKSDEGSKQ
44	Tyrosine	LCK		Lck	TEYMENGSLVDFLKTPSGIKL
45	Tyrosine	CSK		Csk	TEYMAKGSLLVDYLRSGRSVL
46	Tyrosine	CSK		Matk	MEHVSKGNLVNFLRTRGRA LV
47	Tyrosine	FAK		Fak	MELCTLGELRSFLQVRKYSL
48	Tyrosine	ABL		c-Abl	TEFMTYGNLLDYLRECNREQV
49	Tyrosine	ENDOTHELIAL	Tie/Tek	Tie	IEYAPYGNLLDFLRKSRVLE TDPAFAREHGTA STL
50	Tyrosine	ENDOTHELIAL	Tie/Tek	Tek	IEYAPHGNLLDFLRKSRVLE TDPAFAIANSTA STL
51	Tyrosine	ENDOTHELIAL	FGFR	Flg	VEYASKGNLREYLQARRPP GLEYCYNPSHNPEEQL
52	Tyrosine	ENDOTHELIAL	FGFR	Bek	VEYASKGNLREYLRARRPP GMEYSYDINRVPEEQM
53	Tyrosine	ENDOTHELIAL	FGFR	FGFR-3	VEYAAKGNLREFLRARRPP GLDYSFDTCKPPEEQL

Figure 1F

54	Tyrosine	ENDOTH ELIAL	FGFR	FGFR-4	VECAAKGNLREFLRARRPP GPDLSPDGPRSSSEGPL
55	Tyrosine	ENDOTH ELIAL	PDGFR	PDGFR-a	TEYCFYGDLVNVLHKNRDS FLSHHPEKPKKELDIFGLNP A
56	Tyrosine	ENDOTH ELIAL	PDGFR	PDGFR-b	TEYCRYGDLVDYLHRNKHT FLQHHS DKRRPPSAELYSNA L
57	Tyrosine	ENDOTH ELIAL	Flt/Flk	Flt1	VEYCKYGNLSNYLKSQRDL FFLNKDAALHMEPKKEKME PG
58	Tyrosine	ENDOTH ELIAL	Flt/Flk	Flt4	VEFCKYGNLSNFLRAKRDA FSPCAEKSPEQGRFRAMV EL
59	Tyrosine	ENDOTH ELIAL	Flt/Flk	Flk1	VEFSKFGNLSTYLRGKRNEF VPYKSKGARFRQKDYVGE L
60	Tyrosine	HGFR		c-Met	LPYMKHGDLRNFIRNETHN P
61	Tyrosine	HGFR		c-Sea	LPYMRHGDLRHFIRAQERSP
62	Tyrosine	HGFR		Ron	LPYMCHGDLLQFIRSPQRNP
63	Tyrosine	EGFR		EGFR	TQLMPFGCLLDYVREHKDN I
64	Tyrosine	EGFR		ErbB2	TQLMPYGCCLLDHVRENRR L
65	Tyrosine	EGFR		ErbB3	TQYLP LGSLLDHVRQHRGA L

Figure 1G

66	Tyrosine	EGFR		ErbB4	TQLMPHGCLEEVHEHKDN I
67	Tyrosine	RET		Ret	VEYAKYGSLRGFLRESRKV GPGYLGSGGSRNSSSLDHPD ERAL
68	Tyrosine	TRK- NGFR		Trk - NGFR	FEYMRHGDNLNRFLRSHGPD AKLLAGGEDVAPGPL
69	Tyrosine	TRK- NGFR		TrkB	FEYMKHGDNLNKFLRAHGPD AVLMAEGNPPTTEL
70	Tyrosine	TRK- NGFR		TrkC	FEYMKHGDNLNKFLRAHGPD AMILVDGQPRQAKGEL
71	Tyrosine	SYK/ZA P70		Syk	MEMAELGPLNKYLQQNRH V
72	Tyrosine	SYK/ZA P70		Zap70	MEMAGGGPLHKFLVGKRE EI
73	Tyrosine	TYK/JA K		Jak1	MEFLPSGSLKEYLPKNKNKI
74	Tyrosine	TYK/JA K		Jak2	MEYLPYGSLRDYLVQKHKE I
75	Tyrosine	TYK/JA K		Jak3	MEYLPYGSLRDYLVQKHKE L
76	Tyrosine	TYK/JA K		Tyk2	MEYVPLGSLRDYLVPRHSI
77	Serine/Threonine	IAK		Iak1	LEYAPLGTVYRELQKLSKF

Figure 1H

78	Serine/Threonine	CHK		Chk1	LEYCSGGELFDRIEPDIGM
79	Serine/Threonine	IKK		IKK-1	MEYCSGGDLRKLKNKPENC CGL
80	Serine/Threonine	IKK		IKK-2	MEYCQGGDLRKLYNQFEN CCGL
81	Serine/Threonine	DAPK		DAPK	LELVAGGELFDFLAEKESL
82	Tyrosine	IRK		IRK	MELMAHGDLKSYLRSLRPE AENNPGRPPPTL
83	Serine/Threonine	Activin/T GFbR	TGFbR	TGFbRII	TAFHAKGNLQEYLTRHVI
84	Serine/Threonine	Activin/T GFbR	ACTR	ACTRIIA	TAFHEKGSLSDFLKANVV
85	Serine/Threonine	Activin/T GFbR	ACTR	ACTRIIB	TAFHDKGSLTDYLGKNI
86	Serine/Threonine	Activin/T GFbR	ALK	ALK1	THYHEHGSLYDFLQRQTL
87	Serine/Threonine	Activin/T GFbR	ALK	ALK2	THYHEMGSLYDYQLQTTL
88	Serine/Threonine	Activin/T GFbR	ALK	ALK3	TDYHENGSLYDFLKCATL
89	Serine/Threonine	Activin/T GFbR	ALK	ALK4	SDYHEHGSLFDYLNRYTV

Figure 11

89	Serine/Threonine	Activin/T GFbR	ALK	ALK5	SDYHEHGSFLFDYLNRYTV
90	Serine/Threonine	Activin/T GFbR	ALK	ALK6	TDYHENGSLYDYLKSTTL
91	Tyrosine	DDR		DDR1	TDYMENGDLNQFLSAHQL
92	Tyrosine	DDR		DDR2	TEYMENGDLNQFLSRHEP
93	Serine/Threonine	ILK		ILK	THWMPYGSLYNVLHEGTNF VV
94	Tyrosine	MAPK		JNK	MELMDANLCQVIQMEL

Figure 2A

Protein Kinase

c-Raf	T	Q	W	C	E	G	S	S	L	Y	K	H	L	H	I	E	T	K	F
Araf	S	N	F	S	D	A	T	T	I	F	H	I	M	V	D	S	R	W	
Braf		Y		*					M	W	R	M	M	*				Y	
									V			V		L					

cAPKa	M	E	Y	V	P	G	G	E	M	F	S	H	L	R	R	I	G	R	F
cAPKb	I	Q	F	L	N	A	A	D	L	M	F	R	I	Q	H	V	R	K	W
cAPKg	L	D	W	A	T			*	I	W	Y	Q	M	S	Q	E	H	V	Y
	V	N		I	S				V	Y	W	K	V	K	D	L	K	I	
		*		M	Q				I	T	N		N	K	K	A	L		
				G					L				T	S	S		M		
									V						N	C			
															E	M			
															T	D			
															*	R			
																T			
																*			

PKCa	M	E	Y	V	N	G	G	D	L	M	F	H	I	Q	Q	V	G	K	F
PKCb	I	D	F	L	T	A	A	E	I	I	Y	Q	L	N	D	L	R	R	W
PKCc	L	*	W	I	Q			*	M	L	W	N	M		R	K	H		Y
PKCd	V			M	S				V	V			V		K	S	K		
PKCe															S	C	A		
PKCet															N	I			
PKCth															E	M			
															T	R			
															*	T			

Akt1/RacA	M	E	Y	A	N	G	G	E	L	F	F	H	L	S	R	E	R	V	F
Akt2/RacB	I	Q	F	V	Q	A	A	D	I	W	W	I	T	H	D	K	I	W	
DmRAC	L	D	W	I				*	M	Y	Y	M	K	*			L	Y	
	V	N		L					V			V					M		
		*		M	G														

GSK3a	L	E	Y	V	P	E	T	V	Y	R	V	A	R	H	Y	T	K	A	K	Q	I	I
GSK3b	I	D	F	I		D	S	I	H	K	I	I	K	Q	F	S	R	T	N	L	T	L
Sgg/zw3	M	*	W	L		*		L	F		L	V	N	W	A		L	R	N	R	M	
ASK-a	V			M				M	W		M	L			N		S	Q	I	L	V	
ASK-g											M				Q	I	M		M			
											G				G		V		V			
																	S					
																	K					

CK IIa	F	E	H	V	N	N	T	D	F	K	Q	L	Y	Q	T	L						
CK IIa'	W	D	Y	I	Q	Q	S	E	W	R	N	I	F	N	I	I						
	Y	*	F	L				*	Y			M	W		S	M						
				W	M						V				M	V						
															V							
															L							



bARK1	L	D	M	N	G	A	E	H	I	S	Q	V	F	P	F
bARK2	M	T	I	I	A	*	I	R	M	Y	N	D	P	F	A
GRK1	I	E	M	L	* V		M W	K		T F	H I	E N	A Q	W A	Y
GRK4	V	S	V	V			V								
GRK5		*													
GRK6													I L M E D *		

[illegible][illegible]

P78 MEYASGG E V F D Y L V A H G R M
 MARK1 L D F G T A A K I W E F I I G A K I
 MARK2 I * W D L Y * W M L L
 Par1 V R M V M V

CDK2	F	E	L	H	Q	D	K	M	F	D	A	L	P	T	I
CDK4	W	D	F	F	N	E	T	L	Y	E	K	S	P	S	L
CDK6	Y	*	W	I		*	R	M	W	*	R	G	E		M

)

[illegible]

Fak	M E L C S T I G E L R S T F L Q V R K Y S I
I D I S S I A D I K T W Y N I K R F T I	
L * M M * M V L W M	
V V V V V M V	
c-Abl	T E F M T Y G N L L D Y F L R E D C N R Q D E V
S D W I S F A Q I E E I K D S Q K N D I L	
* Y L W M M * W M *	
V V V V V M	

[illegible]

Tie	S	T	L	Y	S	N	A	L
Tek	A	E	F	G	L	E	P	A
PDGFR-b	D	I	E	K	M	V	G	A
PDGFR-a	K	K	R	A	V	G	D	I
Flt1	R	F	D	F	T	Q	G	M
Flt4	G	S	I	W	I			*
Flk1	T	D	M	R		I		
	E	L	V			L		
	*							
		M	W					
		V	Y			A		
		R	K				*	
		W	*					
		Y						
		*						

Figure 2D

Flg	V E Y A S K G N L R E Y L Q A R R P P G L E Y C Y N P S H N P
Bek	I D C G A R A Q I K D F I R G K K A M D L S F P D I T C K P T
FGFR-3	L * F T M * W M N P * F T P Q E G P T S Q I L M T
FGFR-4	M W G V V K I V W I M V * L T Q S Q I L M T

Flg	E Q L
Bek	G P M
FGFR-3	D N I
FGFR-4	A V
	*

c-Met	L P Y M K H G D L R N F I R N E T H N P
c-Sea	I F I R A E I L H W L K A Q E R S
Ron	M W L C * M K Q Y M S P Q K Q
	V V S V I V Q D S T
	M T N D
	V G * N

EGFR	T Q L M P F G C L L D Y V R E H K D N I
ErbB2	S N Y L Y A S I I E H I H Q N R G R L
ErbB3	I I L T M M * F L K D Q E A M
ErbB4	M V H V V W M N * A Q V
	V W I * K G
	F I M
	W M V

Ret	V E Y A K Y G S L R G F L R E S R K V G P G Y L G S G G S R N
	I D F G R F A T I K A W I K D T K R I A A F I A T A A T K Q
	L * W W M Y M * L W M V
	M V V M

Ret	S S L D H P D E R A L
	T T I E E D K G I
	M * * * M
	V V

Figure 2E

Syk
Zap70

```

M E M A E L G P L N K Y L Q Q N R H V I
I D I G G G A I H R F I V G K K E E L
L * L D I M Q W M N N Q D I M
V V A M V V I A R * L V
      * V
      A
      L
      M
      D
      *

```

Jak1
Jak2
Jak3
Tyk2

```

M E F L P S G S L K E Y L P K N K N K I
I D Y I Y A C I R D F I Q R H R E R L
L * W M T T M * W M N Q S A M
V V F V V T Q D
      W
      L
      I
      G
      I
      L
      *

```

Jak1

```

L E Y A P L G T V Y R E L Q K L S K F
I D F G I A S I F K D I N R I T R W
M * W M L W * M M Y
V V M V V V

```

Chk1

```

L E Y C S G G E L F D R I E P D I G M
I D F S T A A D I W E K L D E L A I
M * W * M Y * M * M * L
V V V V V V

```

IKK-1

IKK-2

```

M E Y C S G G D L R K L L N K P E N C C G L
I D F S Q A A E I K R Y I Q Q F D Q S S A I
L * W T * M I M R W * M
V N V V M V N Y V
      V
      F
      W

```

DAPI

```

L E L V A G G E L F D F L A E K E S L
I D I I G A A D I W E W I G D R D T I
M * M L * M Y * Y M * * M
V V M V V V

```

IRK

```

M E L M A H G D L K S Y L R S L R P E A E N N P G R P P P T L
I D I I G A E I R T F I K T I K D G D Q Q A K S I
L * M L * M W M M
V V V V V V

```

TGFβRII
ACTRIIA
ACTRIIB

```

T A F H A K G N L Q E Y L T R H V I
S G W E R A S I S D F I K A N I V
Y D Q M T * W M S G Q L L
G T V V R K M M
      *

```

1

	T	H	F	E	H	G	L	D	F	I	R	O	R	Q	T	S	L
ALK1	S	D	W	M	A	N	I	Y	* F	W	K M	C N	L S	X K	S Y		V I
ALK2	*	E		D			M				N	R		S	N		M
ALK3					I		V						S	K	I		
ALK4					L								I	S	F		
ALK5					V								M	W	T		
ALK6					Q								G				

	Trk-NGFR	F	E	Y	M	R	H	G	D	L	N	R	F	L	K	S	H	P	D	A	K	V	I	M	V	L	A	G	E	A	D	P	V	P	E
	TrkB	W	D	F	I	K		A	E	I	Q	W	W	K	M	A	A	E	G	G	M	M	I	M	I	I	I	I	E	N	P	T	T	A	
	TrkC	Y	*	*	L				*	M			Y	V		T		*		R	R	V	V	L	L	L	L	D	* Q	E *	Q S	Q N	G G		

Trk-NGFR P L L
TrkB G E I
TrkC A I M
M V
V
D
*

```

DDR1  T D Y M E N G D L N Q F L S A H Q L
DDR2  S E F I D Q A E I Q N W I T R E P
      * W L *      * M      Y M K N I
          V          V      V G D V
                          * M

```

ILK T H W M P Y G S L Y N V L H E G T N F V V
 S F I F A T I F Q I I D A S Q W I I
 Y L W M W L M * Y L L
 M V M V M M

Figure 3A

Peptide	N-terminal	C-terminal
<u>Akt1/RacA</u>		
95 K014D001	Myristyl- G M E Y A N G G E L F F H L S R E R V F	- NH2
<u>ALK1</u>		
96 K048D101	Myristyl- G T H Y H E H G S L Y D F L Q R Q T L	- NH2
<u>Braf</u>		
97 K003D001	Acetyl- K K K K K K G G S S L Y H H L H I I E T K F	- NH2
98 K003D101	Myristyl- G T Q W S E G S S L Y H H L H I I E T K F	- NH2
<u>c-Abi</u>		
99 K061D101	Myristyl- G T E F M T Y G N L L D Y L R E C N R Q E V	- NH2
<u>c-Met</u>		
100 K073D101	Myristyl- G L P Y M K H G D L R N F I R N E T H N P	- NH2
<u>c-Raf</u>		
101 K001D101	Myristyl- G T Q W S E G S S L Y K H L H V Q E T K F	- NH2
102 K001D001	Acetyl- S S L Y K H L H V Q E T K F	- NH2
<u>c-Sea</u>		
103 K074D101	Myristyl- G L P Y M R H G D L R H F I R A Q E R S P	- NH2
<u>c-Src</u>		
104 K051D101	Myristyl- G T E Y M S K G S L L D F L K G E T G K Y L	- NH2
105 K051D001	Acetyl- G S L L D L K G E T G K F L	- NH2
<u>CDK2</u>		
106 K049D101	Myristyl- G F E F L H Q D L K K F M D A S A L T G I	- NH2
107 K049D001	Acetyl- D L K K F M D A S A L T G M	- NH2
<u>CDK4</u>		
108 K050D001	Acetyl- D L R T Y L D K A P P P G L	- NH2
109 K050D101	Myristyl- G F E H V D Q D L R T Y L D K A P P P G L	- NH2
<u>CDK6</u>		
110 K089D101	Myristyl- G F E H V D Q D L T T Y L D K V P E P G V	- NH2
<u>Chk1</u>		
111 K088D102	Myristyl- G E Y S S G G E L F D R I E P D I G M	- NH2
112 K088D101	Myristyl- G E Y A S G G E L F D R I E P D I G M	- NH2
<u>CK IIa</u>		
113 K022D001	Acetyl- K K K K K G G N N T D F K Q L Y Q T L	- NH2
114 K022D101	Myristyl- G F E H V N N T D F K Q L Y Q T L	- NH2

Figure 3B

Csk

115 K058D101 Myristyl- G T E Y M A K G S L V D Y L R S R G R S V L -NH2
116 K058D001 Acetyl- G S L V D I L R S R G R S V L -NH2

Fak

117 K060D101 Myristyl- G M E L S T L G E L R S F L Q V R K Y S L -NH2

EGFR-3

118 K071D101 Myristyl- G G N L R E F L R A R R P P G L E -NH2
119 K071D001 Acetyl- G N L R E I F L R A R R P P G L E I -NH2
120 K071D102 Myristyl- G V E Y A A K G N L R E F L R A R R P P G L E -NH2
121 K071D901 Stearyl- G S F D T S K P P E E Q L -NH2

Flk1

122 K068D101 Myristyl- G V E F S K F G N L S N F L R A K R N L F V P -NH2
123 K068D101 Myristyl- G G N L S N F L R A K R N L F V P -NH2
124 K068D001 Acetyl- G N L S N F L R A K R N L F V P -NH2
125 K068D901 Stearyl- G R F R Q G K D Y V G E L -NH2

GSK3b

126 K018D003 Acetyl- K K K K K K G G G V A R H Y S R A K Q T L P -NH2
127 K018D002 Acetyl- V A R H Y S R A K Q T L P -NH2
128 K018D101 Myristyl- G D Y V P E T V Y R V A R H Y S R A K Q T L -NH2
129 K018D001 Acetyl- R V A R H Y S R A K Q T -NH2

Hck

130 K056D101 Myristyl- G T E F M A K G S L L D F L K S D E G S K Q -NH2

Iak1

131 K087D101 Myristyl- G L E Y A P L G T V Y R E L Q K L S K F -NH2

IKK-1

132 K090D101 Myristyl- G M E Y S S G G D L R K L L N K P E N S S G L -NH2

IKK-2

133 K091D101 Myristyl- G M E Y S Q G G D L R K Y L N Q F E N S S G L -NH2

ILK

134 K107D101 Myristyl- G T H W M P Y G S L Y N V L H E G T N F V V -NH2
135 K107D901 Stearyl- G Y N V L H E G T N F V V -NH2

Figure 3C

IRK

136 K094D101	Myristyl - G M E L M A H G D L K S Y L R S L R P	- NH2
137 K094D001	Acetyl - A Q N N P G R P P P T L	- NH2
138 K094D102	Myristyl - G L K S Y L R S L R P E A	- NH2
139 K094D103	Myristyl - G A E N N P G R P P P T L	- NH2
140 K094D104	Myristyl - G L R P E A E N N P G R P P P T L	- NH2

Jak1

141 K084D101	Myristyl - G M E F L P S G S L K E Y L P K N K N K I	- NH2
142 K084D102	Myristyl - G L K E Y L P K N K N K I	- NH2

Jak2

143 K085D102	Myristyl - G L R D Y L Q K H K E R I	- NH2
144 K085D105	Stearyl - G L R D Y L Q K H K E	- NH2

Jak3

145 K086D101	Myristyl - G M E Y L P S G S L R D F L Q R H R A L	- NH2
146 K086D102	Myristyl - G M E Y L P S G S L R D F L Q R H R A R L	- NH2
147 K086D103	Myristyl - G L R D F L Q R H R A R L	- NH2

Lck

148 K057D001	Acetyl - G S L V D I L K T P S G I K L	- NH2
149 K057D101	Myristyl - G T E Y M E N G S L V D F L K T P S G I K L	- NH2

Lyn

150 K055D101	Myristyl - G T E Y M A K G S L L D F L K S D E G G K V	- NH2
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MARK1

151 K045D101	Myristyl - G M E Y A S G G E V F D Y L V A H G R M	- NH2
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PDGFR- β

152 K064D001	Acetyl - G D I L V D I Y L H R N K H T F L	- NH2
153 K064D101	Myristyl - G T E Y S R Y G D L V D Y L H R N K H T F L	- NH2

PKCb

154 K008D101	Myristyl - G M E Y V N G G D L M Y H I Q Q V G R F	- NH2
155 K008D001	Acetyl - K K K K K K G G D L M Y H I Q Q V G R F	- NH2

Plk

156 K035D001	Acetyl - R S L L E I L H K R R K A	- NH2
157 K035D101	Myristyl - G R S L L E I L H K R R K A	- NH2

Figure 3D

158 K035D102	Myristyl - G L E L S R R R S L L E L H K R R K A L	- NH2
Ret		
159 K080D101	Myristyl - G V E Y A K Y G S L R G F L R E S R K V G P	- NH2
160 K080D001	Acetyl - G S L R G F L R E S R K V G P	- NH2
Ron		
161 K075D101	Myristyl - G L P Y M C H G D L L Q F I R S P Q R N P	- NH2
SNK		
162 K038D101	Myristyl - G L E Y S S R R S M A H I L K A R K V L	- NH2
Syk		
163 K082D101	Myristyl - G M E M A E L G P L N K Y L Q Q N R H V	- NH2
TGFbRII		
164 K093D101	Myristyl - G T A F H A K G N L Q E Y L T R H V I	- NH2
TrkB		
165 K102D101	Myristyl - G F E Y M K H G D L N K F L R A H G P D A V L M A	- NH2
166 K102D106	Myristyl - G L R A H G P D A V L M A	- NH2
167 K102D107	Myristyl - G L R A H G P D A V L	- NH2
168 K102D108	Myristyl - G L N F K L R A H G P D A	- NH2
169 K102D109	Myristyl - G F K L R A H G P D A V L	- NH2
Zap70		
170 K083D101	Myristyl - G M E M A G G G P L H K F L V G K R E E I	- NH2

% change in daily food
consumption (g/mouse/d)

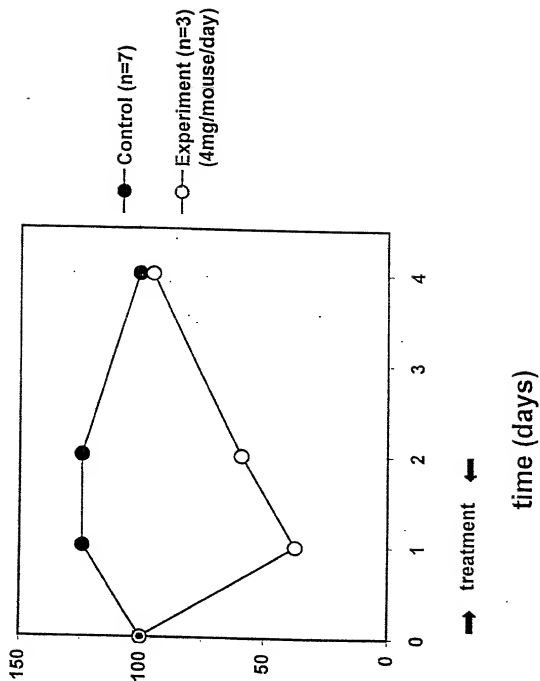


Figure 4

MODULATION OF TH1/TH2 DIFFERENTIATION
BY A JAK-DERIVED PEPTIDE

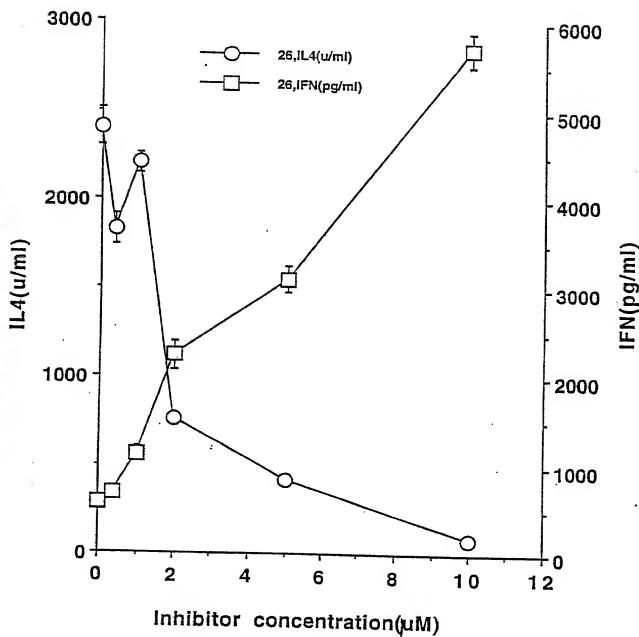


Figure 6

200030-24986001



Fig. 7